



(11) **EP 1 324 058 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
22.10.2003 Bulletin 2003/43

(51) Int Cl.7: **G01R 31/303, G01R 31/319**

(43) Date of publication A2:
02.07.2003 Bulletin 2003/27

(21) Application number: **02256733.3**

(22) Date of filing: **27.09.2002**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
IE IT LI LU MC NL PT SE SK TR
 Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Spisak, Kevin C.**
Beaverton, Oregon 97006 (US)

(74) Representative: **Burke, Steven David et al**
R.G.C. Jenkins & Co.
26 Caxton Street
London SW1H 0RJ (GB)

(30) Priority: **01.10.2001 US 326494 P**

(71) Applicant: **Tektronix, Inc.**
Beaverton, OR 97077-0001 (US)

(54) **Range recognizer employing a single range internally partitioned by monotonically increasing boundary values**

(57) A range recognizer arrangement in accordance with the subject invention, requires only five IC pins to convey an encoded signal from a group of four range recognizers, and requires only twelve IC pins to convey an encoded signal from a group of over one thousand range recognizers. The subject range recognizer arrangement includes circuitry for combining and monotonically sorting all of the predetermined range boundaries, rather than treating each range recognizer as a separate unit. A range recognizer arrangement in accordance with the subject invention is suitable for use with test and measurement instruments such as a logic analyzer or the like.

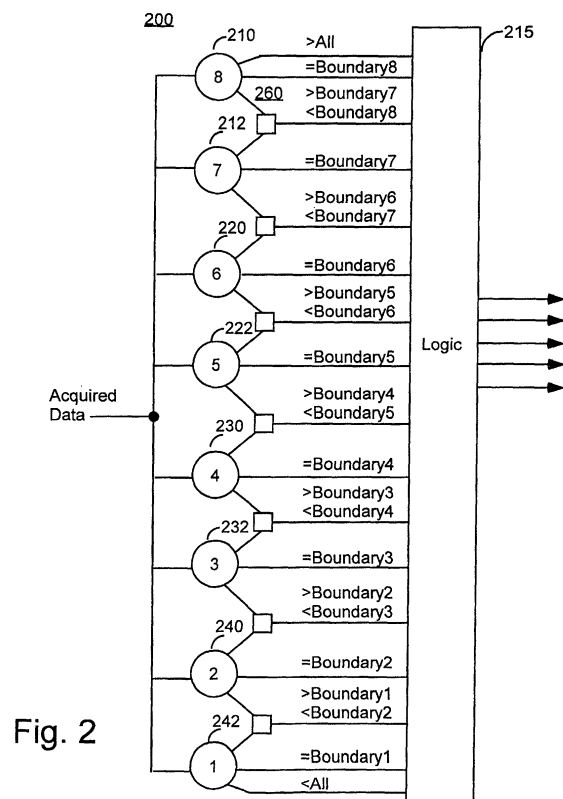


Fig. 2



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 02 25 6733

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	US 4 475 237 A (GLASBY DENNIS E) 2 October 1984 (1984-10-02) * abstract; figures 1-4 * * column 1, line 43-68 - column 2, line 1-9 * * claims 1-7 *	1-7	G01R31/303 G01R31/319
A	US 5 579 006 A (HASEGAWA HIROSHI ET AL) 26 November 1996 (1996-11-26) * abstract; figure 1 *	1-7	
Y	US 4 237 387 A (DEVENDORF DON C ET AL) 2 December 1980 (1980-12-02) * abstract; figure 1 * * column 7, line 60-68 - column 8, line 1-63 *	1-7	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G01R G06F H03M
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 14 July 2003	Examiner Nadal, R
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03 82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 25 6733

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

14-07-2003

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4475237	A	02-10-1984	DE	3243935 A1	09-06-1983
			GB	2110856 A ,B	22-06-1983
			JP	58121460 A	19-07-1983
			NL	8204409 A	16-06-1983

US 5579006	A	26-11-1996	JP	2770728 B2	02-07-1998
			JP	7202698 A	04-08-1995
			JP	2814928 B2	27-10-1998
			JP	8079080 A	22-03-1996
			JP	2624189 B2	25-06-1997
			JP	8079081 A	22-03-1996

US 4237387	A	02-12-1980	NONE		
